DI

metals will vary depending on the ohmic layer 22A and reflector layer 22C but some candidates include Ni, Co, NiO, Rh, Cr, Pt, Mo, Ti, TiW, WSi, WSi:N, TaSi, TaSi:N, InSnO, or TiW:N. The ohmic layer 22A and reflector layer 22C provide the same function as described in the first embodiment.

In accordance with 37 C.F.R. § 1.121(b)(1)(iii), Attachment A contains marked up version of the amended paragraphs illustrating the newly introduced changes in the specification.

## IN THE CLAIMS

Please amend the claims as follows. The following is a clean version of the entire set of pending claims. In accordance with 37 CFR § 1.121(c)(1)(ii), Attachment A provides marked up versions of the claims containing the newly introduced changes.

D2

1. (Four Times Amended) A light-emitting device comprising:

a semiconductor heterostructure including at least one p-type layer and one n-type layer; and

a p contact and an n contact, the p contact electrically connected to the p-type layer, the n contact electrically connected to the n-type layer, wherein at least one of the p and n contacts is a multi-layered contact external to the semiconductor heterostructure, the multi-layered contact comprising:

a metallic reflector layer;

a continuous uniform conducting sheet that makes ohmic contact to the heterostructure; and

(a conductive barrier layer interposing the reflector layer and the continuous uniform conducting sheet;

wherein the multi-layer contact has a reflectivity greater than 75% for light at an operating wavelength of the light-emitting device.

PATENT LAW GROUP ILP 2635 N. FIRST ST. SUITE 223 SAN JOSE, CA 95134 (408) 382-0480 FAX (408) 382-0481

	· /	
	3. A device, as defined in claim 1, wherein the multi-layer contact has a specific	
	contact resistance less than $10^7 \Omega$ -cm <sup>2</sup> .	
	Please cancel claim 4.	
	5. A device, as defined in claim 1, wherein the reflector layer has a thickness	
	greater than 500 Å.	
D 3	6. (Twice Amended) A device, as defined in claim 1, wherein the sheet that	
	makes ohmic contact to the heterostructure has a thickness less than 200 Å.	
	7. A device, as defined in claim 1, wherein the reflector layer is selected from the	
	group consisting of Al, Cu, Rh, Pd, and Au.	
	8. A device, as defined in claim 1, wherein the p and n contacts are on opposing	
	faces of the heterostructure.	
D4	9. (Twice Amended) A device, as defined in claim 8, wherein the sheet that	
	makes ohmic contact to the heterostructure includes Ni and Ag.	
	10. A device, as defined in claim 8, wherein the reflector layer is Ag.	
D 5	11. (Four times Amended) A light-emitting semiconductor device comprising:	
	a semiconductor heterostructure having at least one p-type and one n-type layer; and	
	a p contact and an n contact, the p contact electrically connected to the p-type layer,	
	the n contact electrically connected to the n-type layer, wherein at least one of the p and n	
	contacts is a multi-layer contact external to the semiconductor heterostructure, the multi-layer	
PATENT LAW GROUP I.IP 2635 N. FIRST ST. SUITE 223 SAN JOSE, CA 95134 (408) 382-0480 FAX (408) 382-0481	contact comprising:	
	a metallic reflector layer; and	
	a continuous uniform conducting sheet that makes ohmic contact to the	
	heterostructure;	
	wherein the multi-layer contact has a reflectivity greater than 75% for light at an	
	operating wavelength of the light-emitting device and wherein the multi-layer contact has a	
	-3- Serial No. <b>09/469,652</b>	

D <sup>5</sup>	specific contact resistance less than $10^{-2} \Omega$ -cm <sup>2</sup> .	
	Please cancel claim 13.	
D6	14. (Twice Amended) A device, as defined in claim 11, the multi-layer contact	
	further comprising a barrier layer interposing the reflector layer and the sheet.	
	15. Adevice, as defined in claim 11, the reflector layer having a thickness greater	
	than 500 Å	
D7	16. (Twice Amended) A device, as defined in claim 11, the sheet that makes ohmic	
	contact to the heterostructure having a thickness less than 200 Å.	
	17. A device, as defined in claim 11, the reflector layer being selected from the	
	group consisting of Al, Cu, Rh, Pd, and Au.	
D8	18. (Twice Amended) A device, as defined in claim 11, wherein the sheet that	
	makes ohmic contact to the heterostructure is selected from the group that consists of Ti,	
	Au/NiO, and Ni/Au.	
	Please add the following new claims:	
D9	19. (New) A device, as defined in claim 1, wherein the semiconductor	
	heterostructure includes at least one III-nitride layer.	
	20. (New) A device, as defined in claim 11, wherein the semiconductor	
	heterostructure includes at least one III-nitride layer.	
PATENT LAW GROUP ILP 2635 N. FIRST ST. SUITS SAN JOSE, CA 95134 (408) 382-0480 FAX (408) 382-0481		